

BAM-1020 Audit Sheet

Model: **BAM-1020**

Serial Number: **721292**

Audit Date: **11-1-17**

Audited By: **M. Potter**

Flow Audits

Flow Reference Standard Used:	Model: Bell Delta Cal	Serial No: 146294	Calibration Date: 9/26/17
Temperature Standard Used:	Model: "	Serial No: "	Calibration Date: "
Barometric Pressure Standard Used:	Model: "	Serial No: "	Calibration Date: "

Leak Check Value: as found: **0.9** lpm

as left: **0.4** lpm

Ambient Temperature:

as found: **7.3** C **7.3** C

as left: **7.3** C **7.3** C

N/A ☐

Barometric Pressure:

as found: **745** mmHg **745.5** mmHg

as left: **745** mmHg **745.5** mmHg

N/A ☐

Flow Rate (Actual Volumetric):

as found: **16.7** lpm **16.72** lpm

as left: **16.7** lpm **16.72** lpm

N/A ☐

Flow Rate (EPA Standard):

as found: **slpm** **slpm**

as left: **slpm** **slpm**

N/A ☒

Mechanical Audits

Pump muffler unclogged:	as found <input checked="" type="checkbox"/>	as left <input type="checkbox"/>
Sample nozzle clean:	as found <input type="checkbox"/>	as left <input checked="" type="checkbox"/>
Tape support vane clean:	as found <input type="checkbox"/>	as left <input checked="" type="checkbox"/>
Capstan shaft clean:	as found <input type="checkbox"/>	as left <input checked="" type="checkbox"/>
Rubber pinch rollers clean:	as found <input type="checkbox"/>	as left <input checked="" type="checkbox"/>
Chassis ground wire installed:	as found <input checked="" type="checkbox"/>	as left <input type="checkbox"/>

PM10 particle trap clean:	as found <input type="checkbox"/>	as left <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
PM10 drip jar empty:	as found <input type="checkbox"/>	as left <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
PM10 bug screen clear:	as found <input type="checkbox"/>	as left <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
PM2.5 particle trap clean:	as found <input type="checkbox"/>	as left <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Inlet tube water-tight seal OK:	as found <input checked="" type="checkbox"/>	as left <input type="checkbox"/>	
Inlet tube perpendicular to BAM:	as found <input checked="" type="checkbox"/>	as left <input type="checkbox"/>	

Analog Voltage Output Audit

N/A ☐

DAC Test Screen	BAM Voltage Output	Logger Voltage Input
0.000 Volts	Volts	Volts
0.500 Volts	Volts	Volts
1.000 Volts	Volts	Volts

Membrane Audit

LAST m (mg):	
ABS (mg):	
Difference (mg):	
% Difference:	

Flow Control Range

Flow Setpoint	BAM Flow
15.0 LPM	
16.7 LPM	
18.4 LPM	

Setup and Calibration Values

Parameter	Expected	Found	Parameter	Expected	Found	Parameter	Expected	Found
Clock Time/Date			FLOW TYPE			AP		
RS232 baud			Cv			FRJ		
STATION #			Qo			FRh		
RANGE			ABS			Password		
BAM SAMPLE			μ sw			Cycle Mode		
MET SAMPLE			K Factor			RH Control		
OFFSET			BKGD			RH Setpoint		
CONC UNITS			STD TEMP			Datalog RH		
COUNT TIME			HEATER			Delta-T Control		
FLOW RATE			e1			Delta-T Setpoint		
CONC TYPE			Errors			Datalog Delta-T		

Last 6 Errors in BAM-1020 Error Log

Error	Date	Time	Error	Date	Time
1 Maintenance	11/1/17	11:43	4 Maintenance	10/3/17	12:01
2 Maintenance Pressure	10/7/17	11:47	5 Power Fail	9/2/17	10:15
3 Maintenance	10/3/17	12:29	6 Maintenance	9/1/17	9:38

Audit Notes: **System running upon arrival. Monthly data downloaded. Weathered data downloaded - clocks synced - Tape Tension Test 3X after new tape installed.**

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